(5) (3)

# BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE ELECTRICAL DIVISION

**Name of work:-** Detailed Estimate for Providing and Replacement of Aerial Bunched Cables to theShooting building Raveendranagar to Shettyhalli circle Ward No 13.

Budget Head .....

Division No..... Estimate No. ..... For Rs. 400000.00

| Sl.No. | SR Page & SL No | Description of Work | Unit | Qty. | Rate Rs. | Amount |
|---|---|---|---|---|---|---|
| 1 | 56/7.6.5 | Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A3 X 25 + 1 X 25 + 1 X 16 SQ.MM | Per Mtr | 600 | 177.00 | 106200.00 |
| 2 | Bes Sr | Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR | Per Mtr | 600 | 10.30 | 6180.00 |
| 3 | BESCOM SR 2018-19 49.02 | Supplay and Laying of 1.1KV Class HR (Heat Resistant) PVC Insulated & UnSheathed Aluminium Wires Multistrand Single core Lead wires as per IS694: 2010 PVC Wire - 25 Sqmm Al Wt: 6.7 Kgs, Total Wt: 11.5Kgs for 100Mtrs | Per Mtr | 230 | 32.31 | 7431.30 |
| 4 | 2/1.1.2 | Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.25mm dia 2mm thick | Per Mtr | 125 | 70.00 | 8750.00 |
| 5 | 61/7.8.2 | Labour charges for lying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct.b)25sqmm to 75 sqmm | Per Mtr | 200 | 16.00 | 3200.00 |
| 6 | 46/6.1.3 .A.1 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. ( Icu = Ics) THREE POLE 100Amps25kA. | Nos | 18 | 4044.00 | 72792.00 |
| 7 | 6.7.3 | Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps | Each | 6 | 234.00 | 1404.00 |

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|---|---|---|---|---|---|---|
| 8 | 50/6.41.1 | Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets200mmx200mmx98mm | Nos | 16 | 2178.00 | 34848.00 |
| 9 | 6.4.2 | Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG | Sqcm | 60000 | 0.33 | 19800.00 |
| 10 | 6/2.6.7 | Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm | Per Mtr | 30 | 132.00 | 3960.00 |
| 11 | 17/3.1.0 | Supplying and fixing phylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws | Sqcm | 15000 | 0.22 | 3300.00 |
| 12 | 49/6.39.1 | Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm | Per Mtr | 25 | 263.00 | 6575.00 |
| 13 | 53.15 | Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections | Nos | 40 | 160.00 | 6400.00 |
| 14 | 53.19 | Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook) | Nos | 4 | 131.00 | 524.00 |
| 15 | 7.21 | Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel | Nos | 30 | 20.59 | 617.70 |
| 16 | 46.12 | Installation of Insulation piercing connector for main to street lightMain : 16-95sqmm, Tap : 1.5-10sqmm(EP95) | Nos | 36 | 54.00 | 1944.00 |
| 17 | 46.10 | Fixing of Universal Hook/Dead end clamp | Nos | 4 | 115.00 | 460.00 |
| 18 | 34/5.9.1 | 1.1 KV Pin Insulator | Nos | 40 | 44.00 | 1760.00 |
| 19 | 33/5.4.3 | No. 8 Strain Insulator | Nos | 10 | 14.00 | 140.00 |
| 20 | 33/5.4.2 | Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification of BESCOM 2 Pin 45x45x5mm -510mm | Nos | 35 | 306.00 | 10710.00 |

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| 1 | AR | **Thiristor based single/ Three phase smart street light control and monitoring system** Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit ( Mother board ) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components. | Nos | 2 | 51500.00 | 103000.00 |
| | | Mislenious | | | | 4.00 |
| | | **Total** | | | | **400000.00** |

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15 and BESCOM SR 2018-19 .

T.C.N. Reddy

Jr/Asst. Engineer (Elec)

I.C. AE

Asst. Exe.Engineer (Elec)
DASARAHALLI zone
Bruhat Bangalore Mahanagara Palike

I.C. AE

EXECUTIVE ENGINEER (ELEC)
DASARAHALLI ZONE
BRUHAT BANGALORE MAHANAGARA PALIKE

ನಂ.22 ಕಾ.ಅ.(ವಿ):ದಾ.ವ: 22 200 2019-2020 - 200
ದಿನಾಂಕ 02-07-2019 ರೂ. 4.00 Lakh ಅಕ್ಷರಗಳಲ್ಲಿ
Four lakhs only ಗಳ
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದ್ದು,
ಮಟ್ಟ ಸಂಖ್ಯೆ 31 ಕ್ರಮಸಂಖ್ಯೆ 22
I.C. AE
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ವಿ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

ಸಂಖ್ಯೆ. ಬೃ.ಬೆಂ.ಮ.ಪಾ : ದಾ.ವ : ತಾಂತ್ರಿಕ :20/ 200 2019-2020 - 200
ದಿನಾಂಕ: 02-07-2019. ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ರೂ. 4.00 Lakhs
ಅಕ್ಷರಗಳಲ್ಲಿ Four lakhs only
ಗಳಿಗೆ ಮಾತ್ರ 200 2019-2020 - 200 ನೇ ಸಾಲಿನ ದರಗಳ ಪಟ್ಟಿಯಂತೆ
ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

I.C. AE

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು-57.